

Title (en)
METHOD AND SYSTEM FOR GENERATING A RECEIVED SIGNAL STRENGTH INDICATOR (RSSI) VALUE FROM A RADIO FREQUENCY (RF) SIGNAL

Title (de)
VERFAHREN UND SYSTEM ZUR ERZEUGUNG EINES EMPFÄNGENEN SIGNALSTÄRKEINDIKATORS (RSSI) AUS EINER RADIOFREQUENZ (RF) SIGNAL

Title (fr)
PROCÉDÉ ET SYSTÈME POUR GÉNÉRER UNE VALEUR D'INDICATEUR DE FORCE DE SIGNAL REÇUE (RSSI) À PARTIR D'UN SIGNAL DE RADIO-FRÉQUENCE (RF)

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Application
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Abstract (en)
Embodiments of a method and a system for generating a received signal strength indicator (RSSI) value that corresponds to a radio frequency (RF) signal are disclosed. In an embodiment, a method for generating an RSSI value that corresponds to an RF signal involves obtaining an attenuation factor code in response to applying an automatic gain control (AGC) operation to the RF signal, obtaining an analog-to-digital converter (ADC) code in response to applying an ADC operation to a signal that results from the AGC operation, and combining the attenuation factor code and the ADC code to generate an RSSI value. Other embodiments are also described.

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Citation (search report)

- [XII] US 6442380 B1 20020827 - MOHINDRA RISHI [US]
- [XI] US 7245893 B1 20070717 - HUSTED PAUL J [US], et al
- [A] US 6212244 B1 20010403 - DAVIDOVICI SORIN [US], et al
- [A] US 2014329479 A1 20141106 - SHANAN HYMAN [US]
- [A] US 5617060 A 19970401 - WILSON NATHANIEL B [US], et al
- [XI] SUNGHO LEE ET AL: "Fast RSSI circuit using novel power detector for wireless communication", SOC DESIGN CONFERENCE, 2008. ISOC '08. INTERNATIONAL, IEEE, PISCATAWAY, NJ, USA, 24 November 2008 (2008-11-24), pages I - 9, XP031449432, ISBN: 978-1-4244-2598-3

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